



**California State Fire Marshal**  
**National Fire Incident Reporting System**

**Data as of:** 01/23/2008

**FDID Range:**  
 0 to No Upper Bound

**Incident Date Range:**  
 01/01/2003 to 12/31/2007

**Incident Type:**  
 100 to 173

**All Fires By Heat Source, Summary, 2003-2007**

<u>Year vs Heat Source</u>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b><u>Total</u></b>
Arcing	1,965	2,847	3,949	3,314	2,663	<b>14,738</b>
Backfire from internal combustion engine	175	214	387	237	173	<b>1,186</b>
Blasting agent	1	4	2	1	5	<b>13</b>
Candle	431	590	772	620	437	<b>2,850</b>
Chemical reaction	147	236	370	280	285	<b>1,318</b>
Chemical, natural heat source, other	87	134	132	148	135	<b>636</b>
Cigarette	533	974	2,023	2,105	1,777	<b>7,412</b>
Cigarette lighter	277	510	604	599	782	<b>2,772</b>
Conducted heat from another fire	17	22	19	51	66	<b>175</b>
Explosive, fireworks, other	63	56	58	57	32	<b>266</b>
Fireworks	203	241	384	282	163	<b>1,273</b>
Flame/torch used for lighting	116	172	221	195	182	<b>886</b>
Flying brand, ember, spark	10	14	24	66	298	<b>412</b>
Heat from direct flame, convection currents	141	276	237	461	720	<b>1,835</b>
Heat from other open flame or smoking materials	910	1,315	1,649	1,620	1,572	<b>7,066</b>
Heat from powered equipment, other	2,186	3,298	3,711	3,196	2,922	<b>15,313</b>
Heat from undetermined smoking material	263	359	488	539	515	<b>2,164</b>
Heat source: other	1,776	2,470	2,586	1,693	2,181	<b>10,706</b>

	2003	2004	2005	2006	2007	<u>Total</u>
Heat spread from another fire, other	86	47	94	174	220	621
Heat, spark from friction	401	635	711	604	516	2,867
Hot ember or ash	756	1,084	1,193	1,134	1,169	5,336
Hot or smoldering object, other	1,004	1,437	1,812	1,647	1,635	7,535
Incendiary device	248	405	575	576	436	2,240
Lightning	44	48	116	70	60	338
Match	773	1,538	2,313	1,986	1,920	8,530
Model and amateur rockets	0	0	3	8	2	13
Molten, hot material	190	302	297	250	232	1,271
Multiple heat sources including multiple ignitions	215	309	322	297	295	1,438
Munitions	6	5	2	5	3	21
Other static discharge	23	27	29	26	17	122
Pipe or cigar	11	19	28	31	15	104
Radiated heat from another fire	157	156	196	280	270	1,059
Radiated, conducted heat from operating equipment	2,565	3,343	3,913	3,307	2,803	15,931
Spark, ember or flame from operating equipment	1,448	2,276	2,193	1,708	1,357	8,982
Sunlight	10	34	35	40	38	157
Undetermined	7,868	12,637	14,962	14,388	13,813	63,668
Warning or road flare; fusee	24	34	52	44	27	181
<u>Total</u>	25,130	38,068	46,462	42,039	39,736	191,435



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<u>Incident Year</u>	<u>Heat Source</u>	<u>Incident Count</u>	<u>Property Losses</u>	<u>Contents Losses</u>	<u>Fire Service Injuries</u>	<u>Fire Service Deaths</u>	<u>Civilian Injuries</u>	<u>Civilian Deaths</u>
<b>2003</b>								
	Heat source: other	1,776	\$13,666,357	\$3,175,418	6	0	29	12
	Operating equipment	8,164	\$55,706,201	\$19,682,000	47	0	100	15
	Hot or Smoldering Object	2,351	\$16,411,201	\$7,824,082	17	0	35	6
	Explosives, Fireworks	521	\$29,636,970	\$840,209	2	0	6	3
	Other Open Flame or Smoking Materials	3,513	\$21,604,695	\$5,114,844	21	0	98	9
	Chemical, Natural Heat Sources	311	\$2,082,178	\$1,579,472	10	0	2	0
	Heat Spread from Another Fire	411	\$3,174,673	\$1,780,563	0	0	10	0
	Other Heat Sources	215	\$2,607,523	\$668,316	3	0	1	0
	Undetermined	7,868	\$67,295,510	\$34,061,338	66	0	44	22
<b>2003</b>	<b>Subtotal</b>	<b>25,130</b>	<b>\$212,185,308</b>	<b>\$74,726,242</b>	<b>172</b>	<b>0</b>	<b>325</b>	<b>67</b>
<b>2004</b>								
	Heat source: other	2,470	\$23,550,934	\$7,771,216	5	0	24	2
	Operating equipment	11,764	\$104,361,086	\$30,284,736	45	0	165	12
	Hot or Smoldering Object	3,458	\$27,467,210	\$8,627,987	13	0	26	7
	Explosives, Fireworks	711	\$4,184,856	\$1,249,902	1	0	2	0
	Other Open Flame or Smoking Materials	5,725	\$44,327,403	\$12,844,221	29	0	119	22
	Chemical, Natural Heat Sources	479	\$4,030,702	\$2,405,287	3	0	4	0
	Heat Spread from Another Fire	515	\$3,703,705	\$861,841	0	0	3	0
	Other Heat Sources	309	\$4,622,579	\$805,902	0	0	2	2
	Undetermined	12,637	\$147,685,062	\$68,367,246	73	0	103	29
<b>2004</b>	<b>Subtotal</b>	<b>38,068</b>	<b>\$363,933,537</b>	<b>\$133,218,338</b>	<b>169</b>	<b>0</b>	<b>448</b>	<b>74</b>
<b>2005</b>								
	Heat source: other	2,586	\$31,747,523	\$13,473,643	9	0	40	8
	Operating equipment	13,766	\$142,147,031	\$59,046,916	71	0	225	30
	Hot or Smoldering Object	4,013	\$46,700,732	\$13,758,371	42	0	72	8
	Explosives, Fireworks	1,024	\$8,686,388	\$2,030,246	2	0	7	1
	Other Open Flame or Smoking Materials	8,537	\$67,451,958	\$22,076,780	38	1	184	28
	Chemical, Natural Heat Sources	682	\$16,534,633	\$2,962,882	0	0	8	0
	Heat Spread from Another Fire	570	\$8,297,851	\$3,494,666	4	0	3	0

## All Fires By Heat Source, Summary, 2003-2007

<u>Incident Year</u>	<u>Heat Source</u>	<u>Incident Count</u>	<u>Property Losses</u>	<u>Contents Losses</u>	<u>Fire Service Injuries</u>	<u>Fire Service Deaths</u>	<u>Civilian Injuries</u>	<u>Civilian Deaths</u>
	Other Heat Sources	322	\$7,082,920	\$1,970,002	6	0	6	1
	Undetermined	14,962	\$315,024,144	\$163,768,103	79	0	132	51
<b>2005</b>	<b>Subtotal</b>	<b>46,462</b>	<b>\$643,673,180</b>	<b>\$282,581,609</b>	<b>251</b>	<b>1</b>	<b>677</b>	<b>127</b>
<b>2006</b>								
	Heat source: other	1,693	\$26,727,293	\$8,387,624	7	0	21	5
	Operating equipment	11,525	\$134,997,708	\$64,095,886	48	0	173	14
	Hot or Smoldering Object	3,635	\$138,659,914	\$14,381,500	27	0	45	14
	Explosives, Fireworks	929	\$8,364,461	\$1,331,579	0	0	3	0
	Other Open Flame or Smoking Materials	7,976	\$81,725,566	\$15,751,454	33	1	147	32
	Chemical, Natural Heat Sources	564	\$8,548,416	\$5,662,851	5	0	4	0
	Heat Spread from Another Fire	1,032	\$12,251,954	\$3,255,493	1	0	17	1
	Other Heat Sources	297	\$15,301,177	\$2,244,211	2	0	1	2
	Undetermined	14,388	\$286,501,580	\$67,135,717	90	0	152	55
<b>2006</b>	<b>Subtotal</b>	<b>42,039</b>	<b>\$713,078,069</b>	<b>\$182,246,315</b>	<b>213</b>	<b>1</b>	<b>563</b>	<b>123</b>
<b>2007</b>								
	Heat source: other	2,181	\$335,543,536	\$115,549,140	7	0	22	6
	Operating equipment	9,745	\$368,999,699	\$59,181,323	46	0	121	14
	Hot or Smoldering Object	3,552	\$35,729,140	\$13,500,026	17	0	27	6
	Explosives, Fireworks	641	\$5,488,925	\$889,517	2	0	2	1
	Other Open Flame or Smoking Materials	7,400	\$55,389,494	\$16,052,564	22	0	115	23
	Chemical, Natural Heat Sources	535	\$9,359,580	\$6,685,654	7	0	10	1
	Heat Spread from Another Fire	1,574	\$68,896,870	\$35,033,172	2	0	6	0
	Other Heat Sources	295	\$10,437,271	\$7,125,660	1	0	3	2
	Undetermined	13,813	\$606,975,551	\$177,404,693	82	0	101	40
<b>2007</b>	<b>Subtotal</b>	<b>39,736</b>	<b>\$1,496,820,066</b>	<b>\$431,421,749</b>	<b>186</b>	<b>0</b>	<b>407</b>	<b>93</b>
<b>Grand Total</b>		<b>191,435</b>	<b>\$3,429,690,160</b>	<b>\$1,104,194,253</b>	<b>991</b>	<b>2</b>	<b>2,420</b>	<b>484</b>

The data contained in this report comes from the State Fire Marshal's California All Incident Reporting System (CAIRS) data warehouse. Property and contents loss figures, if included herein, are estimates only. These emergency incident statistics, including injury and death counts, are based only upon information submitted to the State Fire Marshal by participating California fire departments. Please note that apparent variations in incident counts and associated losses shown in this report may be solely due to fluctuations in the amount of data submitted to the State Fire Marshal. And while the incoming data is validated according to logical data rules, individual data elements are not always verified for accuracy.